

IM 3 Final Project

Spring 2019

OBJECTIVE: *The goal of this project is to find the relationship between the study of mathematics and real-world applications.*

TASKS

The following is a list of what needs to be accomplished:

1. **Get into a group of 2 students.** Seniors need to be grouped with other seniors. In the event of an odd number of seniors, a senior may work with a non-senior. If someone wants to work on their own that's fine, as long as there are an odd number of people in the class. There will not be any groups of threes or fours.
2. **Pick** a problem from Mr. Bishop.
3. **Type a report** that meets the following requirements:
 - a. Problem must be explained step by step, the type of function in your problem, and other applications where your function can be used.
 - b. Problem must have an illustration and/or graphs describing the problem.
4. **Present** your problem to the class.

GRADING

The following is a list of how the project will be graded out of 100 points.

1. **Completion** (30 pts)
 - a. The rough draft, presentation, and report are turned in on time.
 - b. Use Google Classroom to turn in the presentation and the typed report.
2. **Typed Report** (40 pts). **Type** a report that contains the following:
 - a. The report needs to have a clear explanation of how your problem was solved.
 - b. Your report needs to state what type of function is used in your problem, and have other examples of where your function is used.
 - c. The report needs to be **typed**, **neat**, and **correct**. (Handwritten reports will not be accepted.)
 - d. The report needs illustrations and/or graphs which are **neat**.
3. **Presentation** (30 pts)
 - a. Prepare a slide show that is **neatly** laid out and has the following:
 - The problem. Clearly state the problem in your slide show and what you are solving.
 - Graphs and pictures are required. They are necessary to illustrate the problem.
 - A step-by-step explanation of how the problem was solved. A bulleted list works best for this.
 - Give examples of other applications where this is used.
 - b. Put your slide show on a flash drive or share it to me at scott.bishop@kermanusd.com.
 - c. Each student explains their part of the problem clearly. Points are lost to the person who does not participate (Absent = 0 points for the whole project).
 - d. Each student is able to answer questions (from the class and/or Mr. Bishop).

DUE DATES

These are the following due dates:

1. Groups will be formed on Friday, May 17, 2019 and the problems are assigned.
2. Rough draft is due on Wednesday/Thursday, May 22/23, 2019. All you need for the rough draft is all parts of your problem is solved. I don't need a written report, just the work that solves your problem.
3. The report is due on the day of the final (see below for dates).
4. The date of the presentation will be during each period's final period. Seniors will present on their last day of class during senior checkout week.

2nd Period – Wednesday, June 5, 2018 (Seniors – Wednesday, May 29, 2018)

4th Period – Wednesday, June 5, 2018 (Seniors – Wednesday, May 29, 2018)

5th Period – Thursday, June 6, 2018 (Seniors – Tuesday, May 28, 2018)

7th Period – Thursday, June 6, 2018 (Seniors – Tuesday, May 28, 2018)